INTERNATIONAL SEARCH REPORT

Internationa	application No.
	/JP03/07751

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A. CLASSIFICATION OF SUBJECT MATTER					
Int.Cl ⁷ C22C38/00, C23F11/00					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
	cumentation searched (classification system followed b	y classification symbols)			
	Cl' C22C38/00, C23F11/00				
	1.3.61 352637,007 02022-1-1-				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Kokai	yo Shinan Koho 1922-1996 Jitsuyo Shinan Koho 1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
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C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
х	JP 58-107476 A (Kawasaki Stee	el Corp.),	7,15		
A	27 June, 1983 (27.06.83),		1-6,8-14,		
	Table 1 (Symbol D)		16,17		
	(Family: none)				
A	A JP 59-74219 A (Kawasaki Steel Corp.), 1-17				
	26 April, 1984 (26.04.84),	•	•		
	(Family: none)				
P,A	JP 2002-327212 A (NKK Corp.)	_	1-17		
E / A	15 November, 2002 (15.11.02),				
(Family: none)					
		·	1-17		
P,A	JP 2003-13138 A (NKK Corp.), 15 January, 2003 (15.01.03),		1 '		
	(Family: none)				
	(,				
Purther documents are listed in the continuation of Box C. See patent family annex.					
• Special categories of cited documents: "I" later document published after the international filing date or					
"A" docum	ent defining the general state of the art which is not	priority date and not in conflict with understand the principle or theory un	the application but cited to derlying the invention		
"F" endier document but published on Or after the international filing "X" document of particular relevance; the claimed invention cannot be					
date considered novel or cannot be considered to involve an inventive of which is step when the document is taken alone					
cited to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be					
"O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such			h documents, such		
means combination being obvious to a person skilled in the arr					
"P" document published prior to the international filing date but later "8." document member of the same patent family than the priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search report					
12 September, 2003 (12.09.03) 30 September, 2003 (30.09.03)					
		Authorized officer			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
oapanese ratent Office					
Facsimile No.		Telephone No.			